Preliminary Short Specification for RCA5259H40D1

Created	Printed	Document Number	Revision	Manufacturer
2019/12/27	2020/3/9		A	RFcore co.,Ltd
File : RCA5259H40D1 Short Spec.docx				

The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575
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Band-Specific High Power Amplifier

Product Name : RCA5259H40D1, Code Name :

Doc. Name : Preliminary Short Spec.

ELECTRICAL SPECIFICATIONS	**@ 50 Ohms load, 28 Vdc, Tc ≒ 30 ℃**	
Parameter	**Specification**	**Remark**
Frequency Range	5250 ~ 5850 MHz	
Saturated Output Power	10 W min.	@ CW, 50 ohms load
Large Signal Gain	38 dB min.	Input Level = 0 dBm
Large Signal Gain Flatness	Peak to Peak 2 dB	Input Level = 0 dBm
Maximum Input Power for no damage	Short term : 10 dBm (20msec) Long term : 7 dBm	@ CW, 50 ohms load
Input VSWR	Less than 2.0 : 1	
DC Input Voltage	28 ± 1 Vdc	At 24V, Works with degraded performance.
Current Consumption	2.0 A typ. 2.5 A max.	@ Pout = 10W CW, 50 ohms load
RF Input Signal Format	CW	

Interface Pin Description

Connector	**Description**	**Specification**
I/O Interface(D-Sub 9Pin Male)	1. Enable(Active Low)	(Enable = 0V, Disable = 5V) pull-up @ 5V with 10k ohm
	2. Forward Power Monitor	Logarithmic Detector(≒0.05V/dB)
	3. N.C	Do not connect.
	4. Reflected Power Monitor	Logarithmic Detector(≒0.05V/dB)
	5. Temperature Monitor	VT= 10(mV) * Tc(℃) + 500(mV), Tc = Case Temperature± 5℃
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

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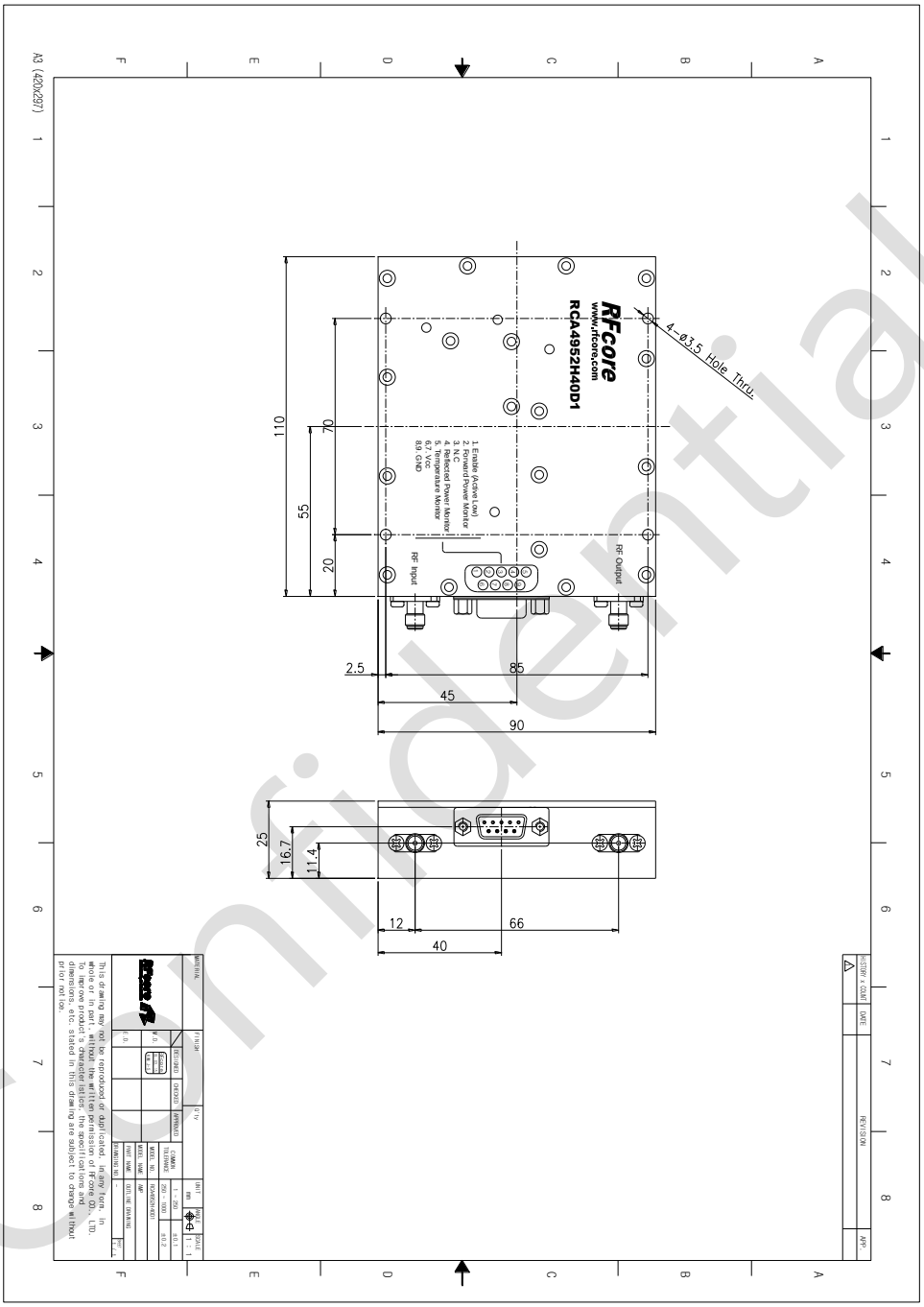
ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-30 ~ +70 ℃	At a hottest point of the mechanical case of amplifier module
Storage Temperature	-40 ~ +85 ℃	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	110 * 90 * 25 mm	w/o connectors
Weight	Less than 450 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
I/O Interface Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



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